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New Sub-Surface Data from Lyon County, Northwest Iowa

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Iowa Geological Survey

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intervening formations. The northwestern area is definitely separated from the other areas by various Paleozoic formations.

IOWA GEOLOGICAL SURVEY,
IOWA CITY, IOWA.

NEW SUB-SURFACE DATA FROM LYON COUNTY, NORTHWEST IOWA

A. C. TESTER

During the summer of 1936 a well was drilled for a municipal water supply at Larchwood, Lyon County. The location is in the extreme northwestern corner of the state, being three miles south of Minnesota and eight miles east of South Dakota. Sioux quartzite is exposed less than seven miles to the northwest. The total depth of the well is 560 feet, which includes 324 feet of glacial material and a complete section of the known upper Cretaceous of western Iowa. The Cretaceous beds are classified as Carlile, Greenhorn, Graneros and Upper Dakota sandstone, the latter being the water producing zone.

The water in the basal Pleistocene sand is highly mineralized and has a hardness of 70 grains, but that of the Dakota sandstone is of good quality, the hardness being 410 parts per million or approximately 24 grains per U. S. gallon.

This well record so near the Sioux quartzite land mass is of major importance in the interpretation of the stratigraphy and structure of northwest Iowa.

IOWA GEOLOGICAL SURVEY,
IOWA CITY, IOWA.

EARTHQUAKE HISTORY IN IOWA

MRS. M. M. SEEBURGER

A summary of shocks felt in Iowa during the last 125 years with brief notes concerning each. Seismic regions surrounding Iowa were reviewed briefly.

DES MOINES SEISMOLOGICAL STATION,
DES MOINES, IOWA.